

## **SEVENTH GRADE**

### **LANGUAGE ARTS**

#### ♦ Reading and Literature

- Oral reading
- Reading comprehension
- DEAR time bi-weekly
- Vocabulary building
- Develop a love for reading
- Develop fluent and accurate oral reading skills with ability to comprehend the content
- Develop speed in silent reading along with the ability to scan for information
- Detecting relevant and irrelevant information and paraphrasing
- Story structure

#### ♦ Spelling/Vocabulary

- Spelling and Vocabulary is integrated into the curriculum and is introduced throughout the various novel studies. Testing is according to the curriculum.
- Reinforcement activities using the dictionary

#### ♦ Writing Process

- Sentence and sentence parts (sentence structure)
- Punctuation, capitalization, and quotation facts • Synonyms, antonyms, homonyms
- Dictionary, thesaurus skills
- Business letters
- Making an outline
- Writing a library research paper
- Writing book reports
- Creative writing
- Persuasive Writing
- Personal Narratives
- How To Reports
- Free Writing
- Daily Writing Trait Workbook
- 6+1 Writing Program
- Weekly Writing Class
- Sentence Fragments and Run-On
- Poetry
- Character Study
- Author Reports

#### ♦ Grammar

- Recognizing and diagramming all eight parts of speech
- Recognizing and diagramming complements
- Proper Word usage
- Diagramming of Sentences

## **MATHEMATICS**

### Ratios and Proportional Relationships

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

### The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

### Expressions and Equations

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

### Geometry

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

### Statistics and Probability

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

## **SCIENCE**

- Scientific Method – (hypothesis, observation, raw data, analyzing)
- Physical Properties of Matter – (flexibility, strength, hardness, melting and boiling points, thermal conductivity, electrical conductivity, density)
- Chemical Composition of Matter – (elements, Periodic Table, metals and non-metals, compounds, mixtures, solutions, suspensions, solubility, dissolving)

- Separation Techniques – (magnetic attraction, filtration, residue, filtrate, water treatment, evaporation, distillation, chromatography, desalination)
- Diversity of Organisms – (biodiversity, dichotomous keys, classification)
- Cells – (cell theory, plant and animal cells, singular vs. multicellular, cell division)
- Particulate Nature of Matter – (Brownian motion, states of matter S-L-G, expansion, contraction, changes in state)
- Ray Model of Light – (rays and beams, solar and lunar eclipse, reflection, moon phases, concave and convex mirrors, refraction, dispersion of light, colors)
- Atoms and Molecules – (types of microscopes, atomic theory, atomic models, chemical symbols, mass of atoms, molecules, chemical formula and nomenclature)
- Scientists (Archimedes, Galileo, Aristotle, Ptolemy, Copernicus, Bunsen, Mendeleev, Hooke, Leeuwenhoek, Brown, Einstein, Democritus, Dalton, Thompson, Rutherford, Bohr, Beaumont, Ohm, Guericke, Joule, Black, Lavoisier, Elton,
- Transport Systems in Plants and Animals – (osmosis, diffusion, absorption, circulatory system, blood plasma)
- Human Digestive System – (foods, nutrition, ingestion, digestion, absorption and egestion, physical and chemical digestion)
- Human Reproduction – (male and female anatomy, fertilization, heredity, puberty, birth control)
- Electrical Systems – (circuits, electric current, series and parallel, potential difference, measurement, resistance, electroplating, electromagnets, kilowatts, electrical safety and hazards, circuit breakers)
- Forces – (types of forces, measuring forces, mass and weight, effects of forces, speed, pressure)
- Energy and Work – (chemical potential energy, elastic potential energy, kinetic energy, gravitational potential energy, renewable vs. non-renewable energy, geothermal energy, hydroelectric energy, solar energy, wind energy)
- Sound – (vibrational energy, speed of sound, hearing, pitch, frequency, loudness, decibels, sonar, ultrasound, noise)
- Effects of Heat – (expansion, contraction, bimetallic strips, conduction, convection, radiation, insulators, vacuum flasks)

## **HISTORY**

### **WORLD STUDIES**

- This course provides a thematic overview of major world civilizations from their beginnings through their developmental stages.
- Special attention is given to key characters and events that impacted the various groups and their development.
- This course also includes the study of empires, wars and the challenges in the postwar world.

## **CHARACTER STUDIES**

This course expands upon the nine core character traits emphasized each month at LBA. Students learn about ancient and modern people who either show good character that we can model or display poor character that we can learn from. In class, students participate in discussions, answer personal application questions, and complete short assignments. For homework one time a month, students complete a longer project on the month's theme.

## **Mandarin for native speakers**

### **Reading**

- Reading books clearly, fluently and affectionately in Chinese.
- Have silent reading techniques. Read at least 350 characters silently in one minute.
- Expand the reading range. Read and understand different kinds of works such as biography, reportage, etc.
- Understand the thought of writers and learn the writing skills of writers while reading.
- Read and understand ancient Chinese prose and poems with reference book's help
- Read at least one Chinese book in one month and write reading report

### **Writing**

- Express their own opinion and thought in the essays
- Have good habit of observing and accumulate writing materials in daily life
- Start to write simple argumentative, script and science report
- Revise the essays of their own and other classmate.

- Write about 25 essays in one year.
- Able to write 450 characters' essay in 50 minutes.

### **Oral Chinese and Communication**

- Respect and understand each other during communication
- Express opinion clearly and fluently during discussion
- Do public speaking

### **Others**

- Understand and enjoy Chinese traditional culture
- Search and get the materials online quickly
- Discuss and learn how to plan the activities of the school
- Have their own opinion about the news, movies and books

## **Mandarin for non-native speakers**

- Recognize and read with accuracy frequently seen words and highly contextualized words and phrases related to a seventh grade curriculum.
- Generate and answer questions to demonstrate reading comprehension and use strategies to self- correct when needed.
- Maintain conversations with native Mandarin speakers at the short paragraph level.
- Have knowledge about the Chinese writing system and are able to use certain grammatical patterns and connected sentences to write in paragraphs.
- Follow steps to do research papers and present topics that are focused and organized with regard to personal interests and studies.
- Follow multiple written directions and begin to write a multiple-paragraph essay using a structured model and teacher guidance.
- Apply the writing process and write in a variety of modes.
- Write 1000 Chinese characters.

## **ART**

The LBA Art classroom is a positive learning environment that helps to motivate students to be creative, solve problems, and think “outside the box”.

**MAIN GOAL:**

LBA students are encouraged to make conscious choices. They are encouraged to ask questions like:

- What materials are needed to accomplish this task?
- How do these tools work? How can tools be used to make a particular effect?
- What happens when I experiment with these tools and different mediums?
- How does my work reflect how I feel and/or think?

Students build their self confidence and passion for learning when they are creatively encouraged and encouraged to create.

#### PRIMARY EMPHASIS:

Create - Learn to investigate, organize and complete works of art using the exploration of materials.

Present - Learn to share and listen to others explain the choices they make in art.

Respond - Learn to perceive, analyze, critique and interpret artistic work through discussion.

Connect - Learn about art in history and society...different times, places, and cultures

In Grade 7, students' own art making becomes infused with a variety of images and approaches. They are very aware of elements from popular culture and eager to incorporate them into their art. Students continue to make compositional decisions and to use a variety of materials and techniques to generate and produce two- and three- dimensional works of art, as well as multimedia forms. Through creative activities, students continue their process of exploration, discovery, and learning in the visual arts and broaden their knowledge and appreciation of the field.

The study of art in its historical and cultural contexts gives students insight into the visual arts both as a record of human achievement and as inspiration for their own creation of art. It is important to encourage students to view and respond to works from both the past and present and to support their growing understanding that artists are concerned with issues that are relevant to their own lives and societies. Students have opportunities to investigate art works that represent a variety of historical periods, cultures, and styles. As they consider a variety of art works in historical perspective, students ask more refined and probing questions

and gain a clearer understanding of what they themselves value. Recognizing artistic practices that resonate with their own personal and creative concerns can motivate students to think more deeply about their own art-making process. As students examine, analyze, and discuss art works, they become more confident and skilled in expressing informed opinions about and preferences for specific works. They also become aware that others' preferences may differ from their own and that multiple artistic solutions and interpretations are possible and acceptable.

## **PHYSICAL EDUCATION**

- Two, fifty-five-minute periods weekly that aims to provide students with instruction and opportunities to develop skills in various sports and activities that promote physical fitness.
- Students receive instruction and opportunities to play various sports including, but not limited to table tennis, basketball, floor hockey, volleyball, soccer, and softball.

## **MUSIC**

- Notate and identify whole notes/rests, half notes/rests, quarter notes/rests, and eighth notes/rests
- Identify line/space notes in Treble clef
- Sing and sign all the solfege syllables
- Sing with a quality sound
- Explore and sing a variety of repertoire from different genres of music
- Identify and express dynamic markings (f, p, mf, mp, ff, pp)
- Recognize various instruments by sight and sound
- Study composers and their music compositions
- Study seasonal and holiday music
- Participate in Christmas production